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Lyco/L 8/5/05

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(FILE 'HOME' ENTERED AT 12:43:39 ON 05 AUG 2005)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT
12:43:57 ON 05 AUG 2005

L1 0 S APNOEA? AND IGA1?
L2 4092 S IGA1?
L3 1 S L2 AND SIDS?
L4 342 S L2 AND ALTE?
L5 0 S L2 AND (INFANT DEATH)
L6 1 S L2 AND (INFANT DEATH)
L7 124 DUPLICATE REMOVE L4 (218 DUPLICATES REMOVED)
L8 1 S L7 AND DEATH
L9 2 S L7 AND INFANT?
L10 2 DUPLICATE REMOVE L9 (0 DUPLICATES REMOVED)
L11 1 S L10 NOT L8
L12 627 S L2 AND MUCOSAL?
L13 238 DUPLICATE REMOVE L12 (389 DUPLICATES REMOVED)
L14 82468 S (URINARY TRACT INFECTION)
L15 0 S L13 AND L14
L16 12 S L14 AND IGA1
L17 3 DUPLICATE REMOVE L16 (9 DUPLICATES REMOVED)
L18 798 S (SALIVARY IMMUNOGLOBULIN?)
L19 160 S L18 AND MUCOSAL?
L20 23 S L19 AND IGA1?
L21 9 DUPLICATE REMOVE L20 (14 DUPLICATES REMOVED)
L22 7 S L2 AND DEATH?
L23 3 DUPLICATE REMOVE L22 (4 DUPLICATES REMOVED)
L24 28 S L13 AND ELISA
L25 1 S L24 AND URIN?

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FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT
12:43:57 ON 05 AUG 2005

L1 0 S APNOEA? AND IGA1?
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L3 1 S L2 AND SIDS?
L4 342 S L2 AND ALTE?
L5 0 S L2 AND (INFANT DEATH)
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L7 124 DUPLICATE REMOVE L4 (218 DUPLICATES REMOVED)
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L9 2 S L7 AND INFANT?
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L19 160 S L18 AND MUCOSAL?
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L21 9 DUPLICATE REMOVE L20 (14 DUPLICATES REMOVED)
L22 7 S L2 AND DEATH?
L23 3 DUPLICATE REMOVE L22 (4 DUPLICATES REMOVED)
L24 28 S L13 AND ELISA
L25 1 S L24 AND URIN?

=>

ANSWER 16 OF 28 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN
AN 1991:182417 BIOSIS
DN PREV199191097166; BA91:97166
TI BOTH IGA SUBCLASSES ARE REDUCED IN PAROTID SALIVA FROM PATIENT WITH AIDS.
AU MUELLER F [Reprint author]; FROLAND S S; HVATUM M; RADL J; BRANDTZAEG P
CS LIIPAT, RIKSHOSPITALET, N-0027 OSLO 1, NORWAY
SO Clinical and Experimental Immunology, (1991) Vol. 83, No. 2, pp. 203-209.
CODEN: CEXIAL. ISSN: 0009-9104.
DT Article
FS BA
LA ENGLISH
ED Entered STN: 19 Apr 1991
Last Updated on STN: 19 Apr 1991
AB Secretory IgA (SIgA), the isotypes IgA1 and IgA2, and IgM were measured by ELISA in stimulated parotid saliva from patients with AIDS (n = 16), subjects with asymptomatic HIV infection (n = 28), and HIV-seronegative healthy controls (n = 19). SIgA was significantly reduced in the AIDS group (10.4 µg/ml) compared with the asymptomatic HIV-infected subjects (17.1 µg/ml) and the controls (23.0 µg/ml). This decrease comprised both IgA1 and IgA2 to a similar extent on a relative basis. The SIgA decrease in AIDS patients was in striking contrast to their serum IgA level, which was significantly increased (6.9 g/l) compared with asymptomatic HIV-infected subjects (2.9 g/l) as well as the controls (2.8 g/l). Low parotid output of SIgA in patients with HIV infection was associated with low numbers of CD4+ lymphocytes in peripheral blood as well as the presence of oral infections. The parotid output of IgM was similar in all groups. A low level of SIgA in the external secretions of patients with AIDS may well contribute to their frequent mucosal infections of opportunistic microorganisms.
CC Cytology - Human 02508
Biochemistry studies - Proteins, peptides and amino acids 10064
Biochemistry studies - Carbohydrates 10068
Blood - Blood cell studies 15004
Blood - Lymphatic tissue and reticuloendothelial system 15008
Blood - Other body fluids 15010
Dental biology - General and methods 19001
Dental biology - Pathology 19006
Immunology - General and methods 34502
Immunology - Bacterial, viral and fungal 34504
Immunology - Immunopathology, tissue immunology 34508
Medical and clinical microbiology - Virology 36006
IT Major Concepts
Blood and Lymphatics (Transport and Circulation); Clinical Endocrinology (Human Medicine, Medical Sciences); Dental Medicine (Human Medicine, Medical Sciences); Immune System (Chemical Coordination and Homeostasis); Infection; Physiology
IT Miscellaneous Descriptors
HUMAN IMMUNODEFICIENCY VIRUS ACQUIRED IMMUNODEFICIENCY SYNDROME
IMMUNOGLOBULIN A LYMPHOCYTES
ORGN Classifier
Retroviridae 03305
Super Taxa
DNA and RNA Reverse Transcribing Viruses; Viruses; Microorganisms
Taxa Notes
DNA and RNA Reverse Transcribing Viruses, Microorganisms, Viruses
ORGN Classifier
Hominidae 86215
Super Taxa
Primates; Mammalia; Vertebrata; Chordata; Animalia
Taxa Notes
Animals, Chordates, Humans, Mammals, Primates, Vertebrates

ANSWER 16 OF 28 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on

STN

AN 1991:182417 BIOSIS

DN PREV199191097166; BA91:97166

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CC Cytology - Human 02508

Biochemistry studies - Proteins, peptides and amino acids 10064

Biochemistry studies - Carbohydrates 10068

Blood - Blood cell studies 15004

Blood - Lymphatic tissue and reticuloendothelial system 15008

Blood - Other body fluids 15010

Dental biology - General and methods 19001

Dental biology - Pathology 19006

Immunology - General and methods 34502

Immunology - Bacterial, viral and fungal 34504

Immunology - Immunopathology, tissue immunology 34508

Medical and clinical microbiology - Virology 36006

IT Major Concepts

Blood and Lymphatics (Transport and Circulation); Clinical Endocrinology (Human Medicine, Medical Sciences); Dental Medicine (Human Medicine, Medical Sciences); Immune System (Chemical Coordination and Homeostasis); Infection; Physiology

IT Miscellaneous Descriptors

HUMAN IMMUNODEFICIENCY VIRUS ACQUIRED IMMUNODEFICIENCY SYNDROME

IMMUNOGLOBULIN A LYMPHOCYTES

ORGN Classifier

Retroviridae 03305

Super Taxa

DNA and RNA Reverse Transcribing Viruses; Viruses; Microorganisms

Taxa Notes

DNA and RNA Reverse Transcribing Viruses, Microorganisms, Viruses

ORGN Classifier

Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Taxa Notes

Animals, Chordates, Humans, Mammals, Primates, Vertebrates

ANSWER 14 OF 28 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on

STN

AN 1991:318653 BIOSIS

DN PREV199192029168; BA92:29168

TI THE HIGH LECTIN-BINDING CAPACITY OF HUMAN SECRETORY IGA PROTECTS
NONSPECIFICALLY MUCOSA AGAINST ENVIRONMENTAL ANTIGENS.

AU DAVIN J-C [Reprint author]; SENTERRE J; MAHIEU P R

CS DEP PEDIATRICS, UNIV LIEGE, CHU SART-TILMAN, B-4000 LIEGE, BELG

SO Biology of the Neonate, (1991) Vol. 59, No. 3, pp. 121-125.
CODEN: BNEOBV. ISSN: 0006-3126.

DT Article

FS BA

LA ENGLISH

ED Entered STN: 15 Jul 1991

Last Updated on STN: 15 Jul 1991

AB The anti-infectious role of human milk may be, at least partly, ascribed to its content in secretory IgA. As lectins are present in various infectious antigens, the binding of different types of IgA to three lectins (concanavalin A, peanut agglutinin, wheat germ agglutinin) was studied by **ELISA**. The specificity of those bindings was assessed by inhibitory experiments performed with the corresponding oligosaccharides. The following were found for the three lectins: (1) the lectin-binding capacity of colostrum secretory IgA was markedly greater than that of normal plasma IgA ($p < 0.001$); (2) the lectin-binding capacity of polymeric IgA1 was greater than that of monomeric IgA1 ($p < 0.001$). This property of mucosal IgA may be responsible of a nonimmune opsonization able to prevent the early step of some infectious mucosal disease, i.e. the attachment of bacteria to epithelial cells by lectin-like bonds and also the penetration into the body of some antigens able to favor the development of allergy. Milk mucosal IgA, present in significant amounts of human colostrum and mature milk - but not infant formulas - may therefore play an important polyvalent protective role in newborns.

CC Physical anthropology and ethnobiology 05000

Biochemistry studies - Proteins, peptides and amino acids 10064

Biochemistry studies - Carbohydrates 10068

Biophysics - Membrane phenomena 10508

Enzymes - Methods 10804

Metabolism - Carbohydrates 13004

Metabolism - Proteins, peptides and amino acids 13012

Nutrition - General studies, nutritional status and methods 13202

Reproductive system - Physiology and biochemistry 16504

Pediatrics - 25000

Immunology - General and methods 34502

Immunology - Bacterial, viral and fungal 34504

Immunology - Immunopathology, tissue immunology 34508

Medical and clinical microbiology - General and methods 36001

IT Major Concepts

Clinical Endocrinology (Human Medicine, Medical Sciences); Immune System (Chemical Coordination and Homeostasis); Infection; Membranes (Cell Biology); Metabolism; Nutrition; Pediatrics (Human Medicine, Medical Sciences); Reproductive System (Reproduction)

IT Miscellaneous Descriptors

NEWBORNS IMMUNOGLOBULIN A BREAST FEEDING INFECTIOUS DISEASE

ELISA

ORGN Classifier

Microorganisms 01000

Super Taxa

Microorganisms

Taxa Notes

Microorganisms

ORGN Classifier

Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Taxa Notes

Animals, Chordates, Humans, Mammals, Primates, Vertebrates

ANSWER 10 OF 28 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on

STN

AN 1996:124138 BIOSIS

DN PREV199698696273

TI Subclasses of IgA antibodies in serum and saliva samples of newborns and infants immunized against rotavirus.

AU Friedman, M. G. [Reprint author]; Entin, N.; Zedaka, R.; Dagan, R.

CS Virol. Unit, Fac. Health Sci., Ben Gurion Univ. Negev, PO Box 653, Beer Sheva 84105-IL, Israel

SO Clinical and Experimental Immunology, (1996) Vol. 103, No. 2, pp. 206-211.

CODEN: CEXIAL. ISSN: 0009-9104.

DT Article

LA English

ED Entered STN: 27 Mar 1996

Last Updated on STN: 27 Mar 1996

AB Little is known about subclass levels of IgA in serum or saliva of infants in the perinatal period. We have previously shown that very young infants are capable of responding to an experimental rotavirus vaccine with both serum and salivary IgA, and that small amounts of IgA are already detectable in cord blood of these infants. In the present study, total IgA1 and IgA2 antibodies in serum and saliva samples of some of these infants at birth, at 6 weeks of age, and at 12 weeks of age, were determined by a quantitative ELISA. Also, subclass-specific IgA antibodies to the rotavirus group A common antigen were determined by ELISA. The ratio of average serum concentrations of IgA1 to IgA2 for 14 infants at 6 weeks of age was 19:1, while in saliva it was 5:1. Between 6 and 12 weeks of age levels of serum IgA1 increased while levels of IgA2 did not increase perceptibly. Concentrations of IgA1 were higher in infant sera than in saliva, while concentrations of IgA2 were slightly higher in saliva than in serum. When calculated as specific ELISA units per mg IgA1, more salivary IgA1 was specific for rotavirus than serum IgA1. Further studies are needed to determine when infant IgA2 levels rise to values more characteristic of children and adults. This may be of significance for infant mucosal immunizations if secretory IgA2, more resistant to bacterial proteases than IgA1, is required for efficient defence of the respiratory and intestinal tracts.

CC Biochemistry studies - Proteins, peptides and amino acids 10064

Biochemistry studies - Carbohydrates 10068

Biophysics - Methods and techniques 10504

Blood - Blood and lymph studies 15002

Blood - Lymphatic tissue and reticuloendothelial system 15008

Blood - Other body fluids 15010

Immunology - Immunopathology, tissue immunology 34508

Medical and clinical microbiology - Virology 36006

IT Major Concepts

Blood and Lymphatics (Transport and Circulation); Clinical Endocrinology (Human Medicine, Medical Sciences); Infection; Physiology

IT Miscellaneous Descriptors

ELISA; IMMUNE RESPONSE; IMMUNOGLOBULIN A

ORGN Classifier

Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Organism Name

human

Taxa Notes

Animals, Chordates, Humans, Mammals, Primates, Vertebrates

ORGN Classifier

Reoviridae 03402

Super Taxa

dsRNA Viruses; Viruses; Microorganisms

Organism Name

Reoviridae

Taxa Notes

Double-Stranded RNA Viruses, Microorganisms, Viruses

ANSWER 7 OF 17 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
DUPLICATE 5

AN 1996:124138 BIOSIS
DN PREV199698696273

TI Subclasses of IgA antibodies in serum and saliva samples of newborns and **infants** immunized against rotavirus.

AU Friedman, M. G. [Reprint author]; Entin, N.; Zedaka, R.; Dagan, R.
CS Virol. Unit, Fac. Health Sci., Ben Gurion Univ. Negev, PO Box 653, Beer Sheva 84105-IL, Israel
SO Clinical and Experimental Immunology, (1996) Vol. 103, No. 2, pp. 206-211.
CODEN: CEXIAL. ISSN: 0009-9104.

DT Article
LA English
ED Entered STN: 27 Mar 1996
Last Updated on STN: 27 Mar 1996

AB Little is known about subclass levels of IgA in serum or saliva of **infants** in the perinatal period. We have previously shown that very young **infants** are capable of responding to an experimental rotavirus vaccine with both serum and salivary IgA, and that small amounts of IgA are already detectable in cord blood of these **infants**. In the present study, total IgA1 and IgA2 antibodies in serum and saliva samples of some of these **infants** at birth, at 6 weeks of age, and at 12 weeks of age, were determined by a quantitative ELISA. Also, subclass-specific IgA antibodies to the rotavirus group A common antigen were determined by ELISA. The ratio of average serum concentrations of IgA1 to IgA2 for 14 **infants** at 6 weeks of age was 19:1, while in saliva it was 5:1. Between 6 and 12 weeks of age levels of serum IgA1 increased while levels of IgA2 did not increase perceptibly. Concentrations of IgA1 were higher in **infant** sera than in saliva, while concentrations of IgA2 were slightly higher in saliva than in serum. When calculated as specific ELISA units per mg IgA1, more salivary IgA1 was specific for rotavirus than serum IgA1. Further studies are needed to determine when **infant** IgA2 levels rise to values more characteristic of children and adults. This may be of significance for **infant mucosal** immunizations if secretory IgA2, more resistant to bacterial proteases than IgA1, is required for efficient defence of the respiratory and intestinal tracts.

CC Biochemistry studies - Proteins, peptides and amino acids 10064
Biochemistry studies - Carbohydrates 10068
Biophysics - Methods and techniques 10504
Blood - Blood and lymph studies 15002
Blood - Lymphatic tissue and reticuloendothelial system 15008
Blood - Other body fluids 15010
Immunology - Immunopathology, tissue immunology 34508
Medical and clinical microbiology - Virology 36006

IT Major Concepts
Blood and Lymphatics (Transport and Circulation); Clinical
Endocrinology (Human Medicine, Medical Sciences); Infection; Physiology

IT Miscellaneous Descriptors
ELISA; IMMUNE RESPONSE; IMMUNOGLOBULIN A

ORGN Classifier
Hominidae 86215
Super Taxa
Primates; Mammalia; Vertebrata; Chordata; Animalia
Organism Name
human
Taxa Notes
Animals, Chordates, Humans, Mammals, Primates, Vertebrates

ORGN Classifier
Reoviridae 03402
Super Taxa
dsRNA Viruses; Viruses; Microorganisms

rotaviruses
↳ ALTE * *

102(b).

Organism Name

Reoviridae

Taxa Notes

Double-Stranded RNA Viruses, Microorganisms, Viruses

ANSWER 17 OF 17 MEDLINE on STN
AN 87309159 MEDLINE
DN PubMed ID: 3040823
TI Ontogeny and senescence of salivary immunity.
AU Smith D J; Taubman M A; Ebersole J L
NC DE-06153 (NIDCR)
DE-07009 (NIDCR)
SO Journal of dental research, (1987 Feb) 66 (2) 451-6.
Journal code: 0354343. ISSN: 0022-0345.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Dental Journals; Priority Journals
EM 198710
ED Entered STN: 19900305
Last Updated on STN: 20000303
Entered Medline: 19871007
AB The objective of the present study was to evaluate the capacity for secretory immune responses throughout life. This was done by measuring, by single radial immunodiffusion, the concentrations of IgA and IgA1 subclass in saliva samples of subjects who ranged in age from two months to 91 years. The presence of salivary IgA antibodies to two nearly ubiquitous mucosal antigens, Streptococcus mutans glucosyltransferase (GTF) and killed poliovirus (Types 1, 2, and 3), was measured in an enzyme-linked immunosorbent assay in this population. Whole saliva from 2-5-month-old infants contained significantly less IgA than did parotid saliva of any adult group. Also, a significantly higher proportion of the total salivary IgA was IgA1 in infants' saliva than was found in parotid saliva of adults. Salivary IgA and IgA1 subclass levels in parotid saliva of young and old (70-91 years) adults did not differ. Salivary IgA antibody levels to GTF were negligible in most saliva samples of children less than five years old, while 40% of children older than one year had detectable levels of salivary antibody to poliovirus (PV). This differences between response to GTF and PV antigens may reflect differences in antigenic challenge. Parotid saliva of the oldest group (70-91 years) had narrowly distributed and uniformly low levels of IgA antibody to both antigens. Since their IgA immunoglobulin levels were the same as in younger adults, the low antibody levels in this oldest group may be associated with changes in the number or function of T or B lymphocytes or antigen-processing cells, and/or may result from diminished levels of challenge with these antigens.
CT Adolescent
Adult
Aged
Aged, 80 and over
*Aging: IM, immunology
Antibodies, Bacterial: AN, analysis
Antibodies, Viral: AN, analysis
Child, Preschool
Humans
Immunoglobulin A, Secretory: CL, classification
*Immunoglobulin A, Secretory: IM, immunology
 Infant
 Middle Aged
 Polioviruses: IM, immunology
 Research Support, U.S. Gov't, P.H.S.
 *Salivary Proteins: IM, immunology
 Streptococcus mutans: IM, immunology
CN 0 (Antibodies, Bacterial); 0 (Antibodies, Viral); 0 (Immunoglobulin A, Secretory); 0 (Salivary Proteins)

Primates; Mammalia; Vertebrata; Chordata; Animalia
Taxa Notes
Animals, Chordates, Humans, Mammals, Primates, Vertebrates

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Connection closed by remote host

ANSWER 15 OF 17 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN DUPLICATE 7

AN 1991:318653 BIOSIS

DN PREV199192029168; BA92:29168

TI THE HIGH LECTIN-BINDING CAPACITY OF HUMAN SECRETORY IGA PROTECTS
NONSPECIFICALLY MUCOSA AGAINST ENVIRONMENTAL ANTIGENS.

AU DAVIN J-C [Reprint author]; SENTERRE J; MAHIEU P R

CS DEP PEDIATRICS, UNIV LIEGE, CHU SART-TILMAN, B-4000 LIEGE, BELG

SO Biology of the Neonate, (1991) Vol. 59, No. 3, pp. 121-125.

CODEN: BNEOBV. ISSN: 0006-3126.

DT Article

FS BA

LA ENGLISH

ED Entered STN: 15 Jul 1991

Last Updated on STN: 15 Jul 1991

AB The anti-infectious role of human milk may be, at least partly, ascribed to its content in secretory IgA. As lectins are present in various infectious antigens, the binding of different types of IgA to three lectins (concanavalin A, peanut agglutinin, wheat germ agglutinin) was studied by ELISA. The specificity of those bindings was assessed by inhibitory experiments performed with the corresponding oligosaccharides. The following were found for the three lectins: (1) the lectin-binding capacity of colostrum secretory IgA was markedly greater than that of normal plasma IgA ($p < 0.001$); (2) the lectin-binding capacity of polymeric IgA1 was greater than that of monomeric IgA1 ($p < 0.001$). This property of mucosal IgA may be responsible of a nonimmune opsonization able to prevent the early step of some infectious mucosal disease, i.e. the attachment of bacteria to epithelial cells by lectin-like bonds and also the penetration into the body of some antigens able to favor the development of allergy. Milk mucosal IgA, present in significant amounts of human colostrum and mature milk - but not infant formulas - may therefore play an important polyvalent protective role in newborns.

CC Physical anthropology and ethnobiology 05000

Biochemistry studies - Proteins, peptides and amino acids 10064

Biochemistry studies - Carbohydrates 10068

Biophysics - Membrane phenomena 10508

Enzymes - Methods 10804

Metabolism - Carbohydrates 13004

Metabolism - Proteins, peptides and amino acids 13012

Nutrition - General studies, nutritional status and methods 13202

Reproductive system - Physiology and biochemistry 16504

Pediatrics - 25000

Immunology - General and methods 34502

Immunology - Bacterial, viral and fungal 34504

Immunology - Immunopathology, tissue immunology 34508

Medical and clinical microbiology - General and methods 36001

IT Major Concepts

Clinical Endocrinology (Human Medicine, Medical Sciences); Immune System (Chemical Coordination and Homeostasis); Infection; Membranes (Cell Biology); Metabolism; Nutrition; Pediatrics (Human Medicine, Medical Sciences); Reproductive System (Reproduction)

IT Miscellaneous Descriptors

NEWBORNS IMMUNOGLOBULIN A BREAST FEEDING INFECTIOUS DISEASE ELISA

ORGN Classifier

Microorganisms 01000

Super Taxa

Microorganisms

Taxa Notes

Microorganisms

ORGN Classifier

Hominidae 86215

Super Taxa

ANSWER 10 OF 17 MEDLINE on STN

AN 94363899 MEDLINE

DN PubMed ID: 7915975

TI Early impairment of gut **mucosal** immunity in HIV-1-infected children.

AU Quesnel A; Moja P; Blanche S; Griscelli C; Genin C

CS Laboratory of Research in Immunology, University of Saint-Etienne, France.

SO Clinical and experimental immunology, (1994 Sep) 97 (3) 380-5.
Journal code: 0057202. ISSN: 0009-9104.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; AIDS

EM 199410

ED Entered STN: 19941021

Last Updated on STN: 19970203

Entered Medline: 19941013

AB This study was performed in 27 HIV-1+ children to characterize the IgA hyperglobulinaemia observed in the serum during the course of HIV-1 infection. By contrast with serum IgG, which increased very early, IgA elevation was related to the decrease of CD4+ cell percentage. It was demonstrated that IgA1 subclass increased selectively.

Secretory IgA (SIgA) and IgA and IgG activity to gliadin, bovine serum albumin (BSA) and at a lower level to casein could be detected in the serum at the early stages of HIV infection, but SIgA levels and IgA activity to gliadin further increased during the course of immunodeficiency. By contrast, IgA and IgG activity to tetanus toxoid did not change. These data demonstrate that the hyper IgA, closely related to the degree of immunodeficiency, could be due in part to a disturbance of the gut **mucosal** immune system. Moreover, impaired intestinal immunity seems to appear very early, and to progress during the course of paediatric HIV-1 infection.

CT Check Tags: Female; Male

CD4-Positive T-Lymphocytes

Child

Child, Preschool

Gliadin: IM, immunology

HIV Antibodies: AN, analysis

*HIV Infections: IM, immunology

*HIV-1: IM, immunology

Humans

*Hypergammaglobulinemia: IM, immunology

Immunity

Immunoglobulin A: AN, analysis

Immunoglobulin A, Secretory: AN, analysis

Immunoglobulin G: AN, analysis

Infant

*Intestinal Mucosa: IM, immunology

Research Support, Non-U.S. Gov't

RN 9007-90-3 (Gliadin)

CN 0 (HIV Antibodies); 0 (Immunoglobulin A); 0 (Immunoglobulin A, Secretory); 0 (Immunoglobulin G)

ANSWER 10 OF 17 MEDLINE on STN

AN 94363899 MEDLINE

DN PubMed ID: 7915975

TI Early impairment of gut **mucosal** immunity in HIV-1-infected children.

AU Quesnel A; Moja P; Blanche S; Griscelli C; Genin C

CS Laboratory of Research in Immunology, University of Saint-Etienne, France.

SO Clinical and experimental immunology, (1994 Sep) 97 (3) 380-5.

Journal code: 0057202. ISSN: 0009-9104.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; AIDS

EM 199410

ED Entered STN: 19941021

Last Updated on STN: 19970203

Entered Medline: 19941013

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CD4-Positive T-Lymphocytes

Child

Child, Preschool

Gliadin: IM, immunology

HIV Antibodies: AN, analysis

*HIV Infections: IM, immunology

*HIV-1: IM, immunology

Humans

*Hypergammaglobulinemia: IM, immunology

Immunity

Immunoglobulin A: AN, analysis

Immunoglobulin A, Secretory: AN, analysis

Immunoglobulin G: AN, analysis

Infant

*Intestinal Mucosa: IM, immunology

Research Support, Non-U.S. Gov't

RN 9007-90-3 (Gliadin)

CN 0 (HIV Antibodies); 0 (Immunoglobulin A); 0 (Immunoglobulin A, Secretory);

0 (Immunoglobulin G)

10/018, 127
Look 7/7/05

ANSWER 7 OF 17 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
DUPLICATE 5
AN 1996:124138 BIOSIS
DN PREV199698696273
TI Subclasses of IgA antibodies in serum and saliva samples of newborns and infants immunized against rotavirus.
AU Friedman, M. G. [Reprint author]; Entin, N.; Zedaka, R.; Dagan, R.
CS Virol. Unit, Fac. Health Sci., Ben Gurion Univ. Negev, PO Box 653, Beer Sheva 84105-IL, Israel
SO Clinical and Experimental Immunology, (1996) Vol. 103, No. 2, pp. 206-211.
CODEN: CEXIAL. ISSN: 0009-9104.
DT Article
LA English
ED Entered STN: 27 Mar 1996
Last Updated on STN: 27 Mar 1996
AB Little is known about subclass levels of IgA in serum or saliva of infants in the perinatal period. We have previously shown that very young infants are capable of responding to an experimental rotavirus vaccine with both serum and salivary IgA, and that small amounts of IgA are already detectable in cord blood of these infants. In the present study, total IgA1 and IgA2 antibodies in serum and saliva samples of some of these infants at birth, at 6 weeks of age, and at 12 weeks of age, were determined by a quantitative ELISA. Also, subclass-specific IgA antibodies to the rotavirus group A common antigen were determined by ELISA. The ratio of average serum concentrations of IgA1 to IgA2 for 14 infants at 6 weeks of age was 19:1, while in saliva it was 5:1. Between 6 and 12 weeks of age levels of serum IgA1 increased while levels of IgA2 did not increase perceptibly. Concentrations of IgA1 were higher in infant sera than in saliva, while concentrations of IgA2 were slightly higher in saliva than in serum. When calculated as specific ELISA units per mg IgA1, more salivary IgA1 was specific for rotavirus than serum IgA1. Further studies are needed to determine when infant IgA2 levels rise to values more characteristic of children and adults. This may be of significance for infant mucosal immunizations if secretory IgA2, more resistant to bacterial proteases than IgA1, is required for efficient defence of the respiratory and intestinal tracts.
CC Biochemistry studies - Proteins, peptides and amino acids 10064
Biochemistry studies - Carbohydrates 10068
Biophysics - Methods and techniques 10504
Blood - Blood and lymph studies 15002
Blood - Lymphatic tissue and reticuloendothelial system 15008
Blood - Other body fluids 15010
Immunology - Immunopathology, tissue immunology 34508
Medical and clinical microbiology - Virology 36006
IT Major Concepts
Blood and Lymphatics (Transport and Circulation); Clinical
Endocrinology (Human Medicine, Medical Sciences); Infection; Physiology
IT Miscellaneous Descriptors
ELISA; IMMUNE RESPONSE; IMMUNOGLOBULIN A
ORGN Classifier
Hominidae 86215
Super Taxa
Primates; Mammalia; Vertebrata; Chordata; Animalia
Organism Name
human
Taxa Notes
Animals, Chordates, Humans, Mammals, Primates, Vertebrates
ORGN Classifier
Reoviridae 03402
Super Taxa
dsRNA Viruses; Viruses; Microorganisms

Organism Name

Reoviridae

Taxa Notes

Double-Stranded RNA Viruses, Microorganisms, Viruses

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AN 1993:523497 BIOSIS

DN PREV199396136904

TI V-region-mediated binding of human Ig by protein A.

AU Ibrahim, Saleh [Reprint author]; Sepala, Ilkka; Makela, Olli

CS Dep. Bacteriol. Immunology, P.O. Box 21, Haartmaninkatu 3, 00014 Univ. Helsinki, Finland

SO Journal of Immunology, (1993) Vol. 151, No. 7, pp. 3597-3603.

CODEN: JOIMA3. ISSN: 0022-1767.

DT Article

LA English

ED Entered STN: 19 Nov 1993

Last Updated on STN: 3 Jan 1995

AB The Fab-mediated "alternative" binding of Ig by staphylococcal protein A is a marker of a set of V-H genes (a subset of family V-H3 in man). We typed 115 monoclonal human Ig as alternative binders or nonbinders. The proportion of binders varied depending on the isotype, 35% in IgM but only 11-13% in IgA1 and IgG3. It was 28% among lambda-chain-bearing but 16% among kappa-bearing monoclonal Ig. Independent estimates of the proportions bound were obtained by studying polyclonal Ig of 10 healthy adults. The proportions bound were close to those observed in the study of monoclonal Ig (the means were IgM 32%, IgA1 13%, IgA2 24%, IgG3 14%). A higher proportion of infant than adult Ig was bound by protein A. Also, the proportion was less isotype-dependent in infants than in adults. At the age of 4 mo, 47% of IgM was bound (mean of 10 children), the values of other isotypes were: IgA1 35%, IgA2 39%, and IgG3 38%. At the age of 14 mo the proportion of alternative binders had decreased but was still far from adult values. We propose that ontogenically early ("virgin") B cells, besides being rich in IgM and kappa-chain producers, are rich in producers of alternative binders. A subsequent selection reduces the proportion of these B cells so that in ontogenically most developed B cell populations, e.g., those producing IgA1 kappa, such cells make up only about 10% of the total.

CC Cytology - Human 02508

Genetics - Human 03508

Biochemistry studies - Proteins, peptides and amino acids 10064

Blood - Lymphatic tissue and reticuloendothelial system 15008

Physiology and biochemistry of bacteria 31000

Immunology - Bacterial, viral and fungal 34504

Immunology - Immunopathology, tissue immunology 34508

IT Major Concepts

Blood and Lymphatics (Transport and Circulation); Clinical Endocrinology (Human Medicine, Medical Sciences); Genetics; Immune System (Chemical Coordination and Homeostasis); Physiology

IT Chemicals & Biochemicals

PROTEIN A

IT Miscellaneous Descriptors

MAJOR HISTOCOMPATIBILITY COMPLEX; T CELL

ORGN Classifier

Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Organism Name

Hominidae

Taxa Notes

Animals, Chordates, Humans, Mammals, Primates, Vertebrates

ORGN Classifier

Micrococcaceae 07702

Super Taxa

Gram-Positive Cocci; Eubacteria; Bacteria; Microorganisms

Organism Name

Micrococcaceae

Taxa Notes
Bacteria, Eubacteria, Microorganisms

ORGN Classifier
Muridae 86375

Super Taxa
Rodentia; Mammalia; Vertebrata; Chordata; Animalia

Organism Name
mouse

Taxa Notes
Animals, Chordates, Mammals, Nonhuman Vertebrates, Nonhuman Mammals,
Rodents, Vertebrates

RN 521-18-6 (PROTEIN A)

ANSWER 1 OF 2 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

AN 1993:523497 BIOSIS

DN PREV199396136904

TI V-region-mediated binding of human Ig by protein A.

AU Ibrahim, Saleh [Reprint author]; Seppala, Ilkka; Makela, Olli

CS Dep. Bacteriol. Immunology, P.O. Box 21, Haartmaninkatu 3, 00014 Univ. Helsinki, Finland

SO Journal of Immunology, (1993) Vol. 151, No. 7, pp. 3597-3603.
CODEN: JOIMA3. ISSN: 0022-1767.

DT Article

LA English

ED Entered STN: 19 Nov 1993

Last Updated on STN: 3 Jan 1995

AB The Fab-mediated "alternative" binding of Ig by staphylococcal protein A is a marker of a set of V-H genes (a subset of family V-H3 in man). We typed 115 monoclonal human Ig as alternative binders or nonbinders. The proportion of binders varied depending on the isotype, 35% in IgM but only 11-13% in IgA1 and IgG3. It was 28% among lambda-chain-bearing but 16% among kappa-bearing monoclonal Ig. Independent estimates of the proportions bound were obtained by studying polyclonal Ig of 10 healthy adults. The proportions bound were close to those observed in the study of monoclonal Ig (the means were IgM 32%, IgA1 13%, IgA2 24%, IgG3 14%). A higher proportion of infant than adult Ig was bound by protein A. Also, the proportion was less isotype-dependent in infants than in adults. At the age of 4 mo, 47% of IgM was bound (mean of 10 children), the values of other isotypes were: IgA1 35%, IgA2 39%, and IgG3 38%. At the age of 14 mo the proportion of alternative binders had decreased but was still far from adult values. We propose that ontogenically early ("virgin") B cells, besides being rich in IgM and kappa-chain producers, are rich in producers of alternative binders. A subsequent selection reduces the proportion of these B cells so that in ontogenically most developed B cell populations, e.g., those producing IgA1 kappa, such cells make up only about 10% of the total.

CC Cytology - Human 02508

Genetics - Human 03508

Biochemistry studies - Proteins, peptides and amino acids 10064

Blood - Lymphatic tissue and reticuloendothelial system 15008

Physiology and biochemistry of bacteria 31000

Immunology - Bacterial, viral and fungal 34504

Immunology - Immunopathology, tissue immunology 34508

IT Major Concepts

Blood and Lymphatics (Transport and Circulation); Clinical Endocrinology (Human Medicine, Medical Sciences); Genetics; Immune System (Chemical Coordination and Homeostasis); Physiology

IT Chemicals & Biochemicals

PROTEIN A

IT Miscellaneous Descriptors

MAJOR HISTOCOMPATIBILITY COMPLEX; T CELL

ORGN Classifier

Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Organism Name

Hominidae

Taxa Notes

Animals, Chordates, Humans, Mammals, Primates, Vertebrates

ORGN Classifier

Micrococcaceae 07702

Super Taxa

Gram-Positive Cocci; Eubacteria; Bacteria; Microorganisms

Organism Name

Micrococcaceae

Taxa Notes
Bacteria, Eubacteria, Microorganisms

ORGN Classifier
Muridae 86375

Super Taxa
Rodentia; Mammalia; Vertebrata; Chordata; Animalia

Organism Name
mouse

Taxa Notes
Animals, Chordates, Mammals, Nonhuman Vertebrates, Nonhuman Mammals,
Rodents, Vertebrates

RN 521-18-6 (PROTEIN A)

ANSWER 17 OF 17 MEDLINE on STN
AN 87309159 MEDLINE
DN PubMed ID: 3040823
TI Ontogeny and senescence of salivary immunity.
AU Smith D J; Taubman M A; Ebersole J L
NC DE-06153 (NIDCR)
DE-07009 (NIDCR)
SO Journal of dental research, (1987 Feb) 66 (2) 451-6.
Journal code: 0354343. ISSN: 0022-0345.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Dental Journals; Priority Journals
EM 198710
ED Entered STN: 19900305
Last Updated on STN: 20000303
Entered Medline: 19871007
AB The objective of the present study was to evaluate the capacity for secretory immune responses throughout life. This was done by measuring, by single radial immunodiffusion, the concentrations of IgA and IgA1 subclass in saliva samples of subjects who ranged in age from two months to 91 years. The presence of salivary IgA antibodies to two nearly ubiquitous mucosal antigens, Streptococcus mutans glucosyltransferase (GTF) and killed poliovirus (Types 1, 2, and 3), was measured in an enzyme-linked immunosorbent assay in this population. Whole saliva from 2-5-month-old infants contained significantly less IgA than did parotid saliva of any adult group. Also, a significantly higher proportion of the total salivary IgA was IgA1 in infants' saliva than was found in parotid saliva of adults. Salivary IgA and IgA1 subclass levels in parotid saliva of young and old (70-91 years) adults did not differ. Salivary IgA antibody levels to GTF were negligible in most saliva samples of children less than five years old, while 40% of children older than one year had detectable levels of salivary antibody to poliovirus (PV). This differences between response to GTF and PV antigens may reflect differences in antigenic challenge. Parotid saliva of the oldest group (70-91 years) had narrowly distributed and uniformly low levels of IgA antibody to both antigens. Since their IgA immunoglobulin levels were the same as in younger adults, the low antibody levels in this oldest group may be associated with changes in the number or function of T or B lymphocytes or antigen-processing cells, and/or may result from diminished levels of challenge with these antigens.
CT Adolescent
Adult
Aged
Aged, 80 and over
*Aging: IM, immunology
Antibodies, Bacterial: AN, analysis
Antibodies, Viral: AN, analysis
Child, Preschool
Humans
Immunoglobulin A, Secretory: CL, classification
*Immunoglobulin A, Secretory: IM, immunology
 Infant
 Middle Aged
 Polioviruses: IM, immunology
 Research Support, U.S. Gov't, P.H.S.
 *Salivary Proteins: IM, immunology
 Streptococcus mutans: IM, immunology
CN 0 (Antibodies, Bacterial); 0 (Antibodies, Viral); 0 (Immunoglobulin A, Secretory); 0 (Salivary Proteins)

=>
Connection closed by remote host

ANSWER 15 OF 17 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN DUPLICATE 7

AN 1991:318653 BIOSIS

DN PREV199192029168; BA92:29168

TI THE HIGH LECTIN-BINDING CAPACITY OF HUMAN SECRETORY IGA PROTECTS
NONSPECIFICALLY MUCOSA AGAINST ENVIRONMENTAL ANTIGENS.

AU DAVIN J-C [Reprint author]; SENTERRE J; MAHIEU P R

CS DEP PEDIATRICS, UNIV LIEGE, CHU SART-TILMAN, B-4000 LIEGE, BELG

SO Biology of the Neonate, (1991) Vol. 59, No. 3, pp. 121-125.

CODEN: BNEOBV. ISSN: 0006-3126.

DT Article

FS BA

LA ENGLISH

ED Entered STN: 15 Jul 1991

Last Updated on STN: 15 Jul 1991

AB The anti-infectious role of human milk may be, at least partly, ascribed to its content in secretory IgA. As lectins are present in various infectious antigens, the binding of different types of IgA to three lectins (concanavalin A, peanut agglutinin, wheat germ agglutinin) was studied by ELISA. The specificity of those bindings was assessed by inhibitory experiments performed with the corresponding oligosaccharides. The following were found for the three lectins: (1) the lectin-binding capacity of colostrum secretory IgA was markedly greater than that of normal plasma IgA ($p < 0.001$); (2) the lectin-binding capacity of polymeric IgA1 was greater than that of monomeric IgA1 ($p < 0.001$). This property of mucosal IgA may be responsible of a nonimmune opsonization able to prevent the early step of some infectious mucosal disease, i.e. the attachment of bacteria to epithelial cells by lectin-like bonds and also the penetration into the body of some antigens able to favor the development of allergy. Milk mucosal IgA, present in significant amounts of human colostrum and mature milk - but not infant formulas - may therefore play an important polyvalent protective role in newborns.

CC Physical anthropology and ethnobiology 05000

Biochemistry studies - Proteins, peptides and amino acids 10064

Biochemistry studies - Carbohydrates 10068

Biophysics - Membrane phenomena 10508

Enzymes - Methods 10804

Metabolism - Carbohydrates 13004

Metabolism - Proteins, peptides and amino acids 13012

Nutrition - General studies, nutritional status and methods 13202

Reproductive system - Physiology and biochemistry 16504

Pediatrics - 25000

Immunology - General and methods 34502

Immunology - Bacterial, viral and fungal 34504

Immunology - Immunopathology, tissue immunology 34508

Medical and clinical microbiology - General and methods 36001

IT Major Concepts

Clinical Endocrinology (Human Medicine, Medical Sciences); Immune System (Chemical Coordination and Homeostasis); Infection; Membranes (Cell Biology); Metabolism; Nutrition; Pediatrics (Human Medicine, Medical Sciences); Reproductive System (Reproduction)

IT Miscellaneous Descriptors

NEWBORNS IMMUNOGLOBULIN A BREAST FEEDING INFECTIOUS DISEASE ELISA

ORGN Classifier

Microorganisms 01000

Super Taxa

Microorganisms

Taxa Notes

Microorganisms

ORGN Classifier

Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia
Taxa Notes
Animals, Chordates, Humans, Mammals, Primates, Vertebrates

ANSWER 13 OF 17 MEDLINE on STN

AN 92110484 MEDLINE
DN PubMed ID: 1730067
TI Ontogeny of immunity to oral microbiota in humans.
AU Smith D J; Taubman M A
CS Department of Immunology, Forsyth Dental Center, Boston, MA 02115.
NC DE-04733 (NIDCR)
DE-06153 (NIDCR)
SO Critical reviews in oral biology and medicine : an official publication of the American Association of Oral Biologists, (1992) 3 (1-2) 109-33. Ref: 127
Journal code: 9009999. ISSN: 1045-4411.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English
FS Dental Journals; Priority Journals
EM 199202
ED Entered STN: 19920308
Last Updated on STN: 20000303
Entered Medline: 19920218
AB This article reviews the ontogeny of immune systems in the human oral cavity that may influence the colonization, accumulation, or pathogenesis of oral microbiota. The prenatal development of cellular components associated with the secretory immune system reveals that the initial organization of tissue into Peyer's patches can first be detected immunohistologically at 11 weeks gestation. Epithelial cells positive for secretory component and immunocytes positive for IgM can be detected in salivary gland tissue by 19 to 20 weeks and continue to predominate during gestation. After birth, immunocytes containing IgA begin to dominate. Essentially, no IgA can be detected in saliva at birth. However, salivary IgA and IgM often appear soon thereafter, presumably in response to environmental antigenic and mitogenic challenges. Salivary IgA in young infants has molecular characteristics of secretory IgA and becomes the quantitatively predominate Ig in saliva. Both IgA subclasses are present in proportions characteristic of adult pure glandular salivas in many 1- to 2-month-old infants, although the appearance of IgA2 is delayed in some subjects. Many innate, antibody, and cellular immune components are found in maternal colostrum and breast milk. The antibacterial properties of these maternal factors are diverse and can exert multifaceted protective effects on the infant's alimentary tract. The infant apparently can mount mucosal immune responses quite early in life. For example, salivary antibody activity to organisms that originally colonize the gut (e.g., *E. coli*) or the oral cavity (e.g., *S. mitis*, *S. salivarius*) can be detected by 1 to 2 months of age. Most of this antibody activity has characteristics of secretory IgA, although some IgM antibody can also be initially detected. Salivary IgA1 and IgA2 antibody specificities to *S. mitis* and *S. salivarius* components increase qualitatively and quantitatively during the first few years of life. Salivary IgA antibody to components of streptococci that require hard surfaces for colonization (e.g., *S. sanguis* and *mutans streptococci*) generally appear after tooth eruption. The loss of placentally derived maternal IgG antibody specificities to these microbiota in the circulation is replaced by de novo synthesis, presumably as a result of the teething process. These IgG antibodies can enter the oral cavity in the gingival crevicular fluid and by the process of teething. (ABSTRACT TRUNCATED AT 400 WORDS)
CT *Bacteria: IM, immunology
Fetus
Humans
Immunity, Cellular: PH, physiology
Immunoglobulins: PH, physiology

*Mouth: IM, immunology
Research Support, U.S. Gov't, P.H.S.
Tooth Eruption: IM, immunology
CN 0 (Immunoglobulins)

ANSWER 11 OF 17 MEDLINE on STN
AN 94011364 MEDLINE
DN PubMed ID: 8406854
TI Antigenic variation of immunoglobulin A1 proteases among sequential isolates of *Haemophilus influenzae* from healthy children and patients with chronic obstructive pulmonary disease.
AU Lomholt H; van Alphen L; Kilian M
CS Institute of Medical Microbiology, University of Aarhus, Denmark.
SO Infection and immunity, (1993 Nov) 61 (11) 4575-81.
Journal code: 0246127. ISSN: 0019-9567.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199311
ED Entered STN: 19940117
Last Updated on STN: 19960129
Entered Medline: 19931124
AB Considerable antigenic heterogeneity has been identified among *Haemophilus influenzae* immunoglobulin A1 (**IgA1**) proteases, and this study increases the number of antigenic types to more than 30. To address the role played in vivo by this polymorphism, sequential *H. influenzae* isolates from three healthy children and three patients with chronic obstructive pulmonary disease (COPD) were examined. Healthy children showed a frequent clonal exchange, with each replacing clone expressing an antigenic type of **IgA1** protease not previously encountered. In contrast, COPD patients were colonized by a single clone for a significantly longer period. In one COPD clone, a change occurred in **IgA1** protease cleavage specificity and antigenic properties. In conclusion, frequent exchange of clones expressing antigenically different **IgA1** proteases seems to be the principal mechanism by which *H. influenzae* evades the immune response of healthy children against **IgA1** protease. The results support the view that **IgA1** protease activity is important for successful colonization of *H. influenzae* on mucosal membranes.
CT Adolescent
*Antigenic Variation
Bacterial Outer Membrane Proteins: AN, analysis
Child
Child, Preschool
DNA Fingerprinting
**Haemophilus influenzae*: EN, enzymology
Humans
 Infant
*Lung Diseases, Obstructive: MI, microbiology
Peptide Hydrolases: GE, genetics
*Peptide Hydrolases: IM, immunology
Peptide Hydrolases: ME, metabolism
Research Support, Non-U.S. Gov't
*Serine Endopeptidases
CN 0 (Bacterial Outer Membrane Proteins); EC 3.4.- (Peptide Hydrolases); EC 3.4.21 (Serine Endopeptidases); EC 3.4.21.72 (IgA-specific serine endopeptidase)

ANSWER 11 OF 17 MEDLINE on STN
AN 94011364 MEDLINE
DN PubMed ID: 8406854
TI Antigenic variation of immunoglobulin A1 proteases among sequential isolates of *Haemophilus influenzae* from healthy children and patients with chronic obstructive pulmonary disease.
AU Lomholt H; van Alphen L; Kilian M
CS Institute of Medical Microbiology, University of Aarhus, Denmark.
SO Infection and immunity, (1993 Nov) 61 (11) 4575-81.
Journal code: 0246127. ISSN: 0019-9567.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199311
ED Entered STN: 19940117
Last Updated on STN: 19960129
Entered Medline: 19931124
AB Considerable antigenic heterogeneity has been identified among *Haemophilus influenzae* immunoglobulin A1 (**IgA1**) proteases, and this study increases the number of antigenic types to more than 30. To address the role played *in vivo* by this polymorphism, sequential *H. influenzae* isolates from three healthy children and three patients with chronic obstructive pulmonary disease (COPD) were examined. Healthy children showed a frequent clonal exchange, with each replacing clone expressing an antigenic type of **IgA1** protease not previously encountered. In contrast, COPD patients were colonized by a single clone for a significantly longer period. In one COPD clone, a change occurred in **IgA1** protease cleavage specificity and antigenic properties. In conclusion, frequent exchange of clones expressing antigenically different **IgA1** proteases seems to be the principal mechanism by which *H. influenzae* evades the immune response of healthy children against **IgA1** protease. The results support the view that **IgA1** protease activity is important for successful colonization of *H. influenzae* on **mucosal** membranes.
CT Adolescent
*Antigenic Variation
Bacterial Outer Membrane Proteins: AN, analysis
Child
Child, Preschool
DNA Fingerprinting
**Haemophilus influenzae*: EN, enzymology
Humans
 Infant
*Lung Diseases, Obstructive: MI, microbiology
Peptide Hydrolases: GE, genetics
*Peptide Hydrolases: IM, immunology
Peptide Hydrolases: ME, metabolism
Research Support, Non-U.S. Gov't
*Serine Endopeptidases
CN 0 (Bacterial Outer Membrane Proteins); EC 3.4.- (Peptide Hydrolases); EC 3.4.21 (Serine Endopeptidases); EC 3.4.21.72 (IgA-specific serine endopeptidase)

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(FILE 'HOME' ENTERED AT 12:43:39 ON 05 AUG 2005)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT
12:43:57 ON 05 AUG 2005

L1 0 S APNOEA? AND IGA1?
L2 4092 S IGA1?
L3 1 S L2 AND SIDS?
L4 342 S L2 AND ALTE?
L5 0 S L2 AND (INFANT DEATH)
L6 1 S L2 AND (INFANT DEATH)
L7 124 DUPLICATE REMOVE L4 (218 DUPLICATES REMOVED)
L8 1 S L7 AND DEATH
L9 2 S L7 AND INFANT?
L10 2 DUPLICATE REMOVE L9 (0 DUPLICATES REMOVED)
L11 1 S L10 NOT L8
L12 627 S L2 AND MUCOSAL?
L13 238 DUPLICATE REMOVE L12 (389 DUPLICATES REMOVED)
L14 82468 S (URINARY TRACT INFECTION)
L15 0 S L13 AND L14
L16 12 S L14 AND IGA1
L17 3 DUPLICATE REMOVE L16 (9 DUPLICATES REMOVED)
L18 798 S (SALIVARY IMMUNOGLOBULIN?)
L19 160 S L18 AND MUCOSAL?
L20 23 S L19 AND IGA1?
L21 9 DUPLICATE REMOVE L20 (14 DUPLICATES REMOVED)
L22 7 S L2 AND DEATH?
L23 3 DUPLICATE REMOVE L22 (4 DUPLICATES REMOVED)
L24 28 S L13 AND ELISA
L25 1 S L24 AND URIN?

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT
13:36:42 ON 05 AUG 2005

L26 614 S SIDS AND REVIEW
L27 158 S ALTE AND REVIEW
L28 34 S L26 AND L27
L29 20 DUPLICATE REMOVE L28 (14 DUPLICATES REMOVED)
L30 0 S L29 AND MUCOSAL?
L31 0 S L29 AND IMMUNOGLOB?
L32 0 S L29 AND IGA?

=> s 129 and 12

ANSWER 15 OF 20 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN DUPLICATE 8

AN 1997:356356 BIOSIS
DN PREV199799662759
TI Otolaryngic manifestations in children presenting with apparent life-threatening events.
AU McMurray, J. Scott [Reprint author]; Holinger, Lauren D.
CS Pediatric Otolaryngology Maxillofacial Surgery, Children's Hosp. Med. Cent., 3333 Burnet Avenue, Cincinnati, OH 45229-3039, USA
SO Otolaryngology - Head and Neck Surgery, (1997) Vol. 116, No. 6 PART 1, pp. 575-579.
CODEN: OHNSDL. ISSN: 0194-5998.
DT Article
LA English
ED Entered STN: 25 Aug 1997
Last Updated on STN: 25 Aug 1997
AB Apparent life-threatening event (**ALTE**) is a term used to characterize an event of unknown cause after an infant is found limp, cyanotic, bradycardic, and/or requiring resuscitation. Like sudden infant death syndrome (**SIDS**), **ALTE** is a general term used until a precise diagnosis can be established. The relationship between **ALTE** and **SIDS** has not been clearly defined, although 7 to 15 percent of children with **ALTE** die of **SIDS**. If children with **ALTE** are at greater risk for **SIDS**, morbidity and mortality may be prevented if the underlying pathology can be identified and corrected or closely monitored. The otolaryngologist is being consulted more frequently to evaluate children who have been through an **ALTE** to help elucidate any underlying pathology that may have caused the near-death experience. This retrospective chart review reports the evaluation of 30 infants with **ALTE** requiring consultation by the Division of Pediatric Otolaryngology at the Children's Memorial Hospital in Chicago during a 3-year period. We reviewed the literature and here compare our findings with current animal models. Of the 30 children evaluated, 53% had gastroesophageal reflux, 40% had laryngeal abnormalities, 13% had tracheal abnormalities, and 10% had pharyngeal abnormalities. Thirteen percent of the children had nonotolaryngic anomalies identified during evaluation. Surgical intervention was required in 10 patients and medical treatment was used in 18. When evaluating a child with **ALTE**, a complete history and physical examination, evaluation for gastroesophageal reflux, assessment for upper airway obstruction by radiographs and endoscopy, and a multidisciplinary approach are recommended.
CC Pathology - Diagnostic 12504
Pathology - Therapy 12512
Digestive system - General and methods 14001
Respiratory system - General and methods 16001
Pediatrics - 25000
IT Major Concepts
 Digestive System (Ingestion and Assimilation); Pathology; Pediatrics (Human Medicine, Medical Sciences); Respiratory System (Respiration)
IT Miscellaneous Descriptors
 APPARENT LIFE-THREATENING EVENT; DIAGNOSIS; DIGESTIVE SYSTEM DISEASE; DISEASE-MISCELLANEOUS; GASTROESOPHAGEAL REFLUX; INFANT; LARYNGEAL ABNORMALITIES; OTOLARYNGIC MANIFESTATIONS; OTOLARYNGOLOGY; PATHOLOGY; PATIENT; PEDIATRICS; PHARYNGEAL ABNORMALITIES; SUDDEN INFANT DEATH SYNDROME; TRACHEAL ABNORMALITIES; TREATMENT
ORGN Classifier
 Hominidae 86215
Super Taxa
 Primates; Mammalia; Vertebrata; Chordata; Animalia
Organism Name
 human
Taxa Notes

ANSWER 15 OF 20 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on
STN DUPLICATE 8

AN 1997:356356 BIOSIS
DN PREV199799662759
TI Otolaryngic manifestations in children presenting with apparent life-threatening events.
AU McMurray, J. Scott [Reprint author]; Holinger, Lauren D.
CS Pediatric Otolaryngology Maxillofacial Surgery, Children's Hosp. Med. Cent., 3333 Burnet Avenue, Cincinnati, OH 45229-3039, USA
SO Otolaryngology - Head and Neck Surgery, (1997) Vol. 116, No. 6 PART 1, pp. 575-579.
CODEN: OHNSDL. ISSN: 0194-5998.
DT Article
LA English
ED Entered STN: 25 Aug 1997
Last Updated on STN: 25 Aug 1997
AB Apparent life-threatening event (**ALTE**) is a term used to characterize an event of unknown cause after an infant is found limp, cyanotic, bradycardic, and/or requiring resuscitation. Like sudden infant death syndrome (**SIDS**), **ALTE** is a general term used until a precise diagnosis can be established. The relationship between **ALTE** and **SIDS** has not been clearly defined, although 7 to 15 percent of children with **ALTE** die of **SIDS**. If children with **ALTE** are at greater risk for **SIDS**, morbidity and mortality may be prevented if the underlying pathology can be identified and corrected or closely monitored. The otolaryngologist is being consulted more frequently to evaluate children who have been through an **ALTE** to help elucidate any underlying pathology that may have caused the near-death experience. This retrospective chart review reports the evaluation of 30 infants with **ALTE** requiring consultation by the Division of Pediatric Otolaryngology at the Children's Memorial Hospital in Chicago during a 3-year period. We reviewed the literature and here compare our findings with current animal models. Of the 30 children evaluated, 53% had gastroesophageal reflux, 40% had laryngeal abnormalities, 13% had tracheal abnormalities, and 10% had pharyngeal abnormalities. Thirteen percent of the children had nonotolaryngic anomalies identified during evaluation. Surgical intervention was required in 10 patients and medical treatment was used in 18. When evaluating a child with **ALTE**, a complete history and physical examination, evaluation for gastroesophageal reflux, assessment for upper airway obstruction by radiographs and endoscopy, and a multidisciplinary approach are recommended.
CC Pathology - Diagnostic 12504
Pathology - Therapy 12512
Digestive system - General and methods 14001
Respiratory system - General and methods 16001
Pediatrics - 25000
IT Major Concepts
Digestive System (Ingestion and Assimilation); Pathology; Pediatrics (Human Medicine, Medical Sciences); Respiratory System (Respiration)
IT Miscellaneous Descriptors
APPARENT LIFE-THREATENING EVENT; DIAGNOSIS; DIGESTIVE SYSTEM DISEASE; DISEASE-MISCELLANEOUS; GASTROESOPHAGEAL REFLUX; INFANT; LARYNGEAL ABNORMALITIES; OTOLARYNGIC MANIFESTATIONS; OTOLARYNGOLOGY; PATHOLOGY; PATIENT; PEDIATRICS; PHARYNGEAL ABNORMALITIES; SUDDEN INFANT DEATH SYNDROME; TRACHEAL ABNORMALITIES; TREATMENT
ORGN Classifier
Hominidae 86215
Super Taxa
Primates; Mammalia; Vertebrata; Chordata; Animalia
Organism Name
human
Taxa Notes

Animals, Chordates, Humans, Mammals, Primates, Vertebrates

Animals, Chordates, Humans, Mammals, Primates, Vertebrates

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(FILE 'HOME' ENTERED AT 12:43:39 ON 05 AUG 2005)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT
12:43:57 ON 05 AUG 2005

L1 0 S APNOEA? AND IGA1?
L2 4092 S IGA1?
L3 1 S L2 AND SIDS?
L4 342 S L2 AND ALTE?
L5 0 S L2 AND (INFANT DEATH)
L6 1 S L2 AND (INFANT DEATH)
L7 124 DUPLICATE REMOVE L4 (218 DUPLICATES REMOVED)
L8 1 S L7 AND DEATH
L9 2 S L7 AND INFANT?
L10 2 DUPLICATE REMOVE L9 (0 DUPLICATES REMOVED)
L11 1 S L10 NOT L8
L12 627 S L2 AND MUCOSAL?
L13 238 DUPLICATE REMOVE L12 (389 DUPLICATES REMOVED)
L14 82468 S (URINARY TRACT INFECTION)
L15 0 S L13 AND L14
L16 12 S L14 AND IGA1
L17 3 DUPLICATE REMOVE L16 (9 DUPLICATES REMOVED)
L18 798 S (SALIVARY IMMUNOGLOBULIN?)
L19 160 S L18 AND MUCOSAL?
L20 23 S L19 AND IGA1?
L21 9 DUPLICATE REMOVE L20 (14 DUPLICATES REMOVED)
L22 7 S L2 AND DEATH?
L23 3 DUPLICATE REMOVE L22 (4 DUPLICATES REMOVED)
L24 28 S L13 AND ELISA
L25 1 S L24 AND URIN?

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT
13:36:42 ON 05 AUG 2005

L26 614 S SIDS AND REVIEW
L27 158 S ALTE AND REVIEW
L28 34 S L26 AND L27
L29 20 DUPLICATE REMOVE L28 (14 DUPLICATES REMOVED)
L30 0 S L29 AND MUCOSAL?
L31 0 S L29 AND IMMUNOGLOB?
L32 0 S L29 AND IGA?

=> s 129 and 12